

12. (Added) The substantially purified nucleic acid molecule according to claim 1, wherein said nucleic acid molecule encodes a maize ribulose-bisphosphate carboxylase and said nucleic acid molecule comprises a nucleic acid sequence of SEQ ID NO: 127.
13. (Added) The substantially purified nucleic acid molecule according to claim 1, wherein said nucleic acid molecule encodes a maize ribulose-bisphosphate carboxylase and said nucleic acid molecule comprises a nucleic acid sequence of SEQ ID NO: 137.
14. (Added) The substantially purified nucleic acid molecule according to claim 1, wherein said nucleic acid molecule encodes a soybean ribulose-bisphosphate carboxylase and said nucleic acid molecule comprises a nucleic acid sequence of SEQ ID NO: 757.
15. (Added) The substantially purified nucleic acid molecule according to claim 1, wherein said nucleic acid molecule encodes a maize phosphoglycerate kinase and said nucleic acid molecule comprises a nucleic acid sequence of SEQ ID NO: 1049.
16. (Added) The substantially purified nucleic acid molecule according to claim 1, wherein said nucleic acid molecule encodes a maize phosphoglycerate kinase and said nucleic acid molecule comprises a nucleic acid sequence of SEQ ID NO: 1050.
17. (Added) The substantially purified nucleic acid molecule according to claim 1, wherein said nucleic acid molecule encodes a maize triose phosphate isomerase and said nucleic acid molecule comprises a nucleic acid sequence of SEQ ID NO: 3713.
18. (Added) The substantially purified nucleic acid molecule according to claim 1, wherein said nucleic acid molecule encodes a maize phosphoenolpyruvate carboxylase and said nucleic acid molecule comprises a nucleic acid sequence of SEQ ID NO: 5171.

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19. (Added) The substantially purified nucleic acid molecule according to claim 1, wherein said nucleic acid molecule encodes a maize alanine aminotransferase and said nucleic acid molecule comprises a nucleic acid sequence of SEQ ID NO: 5567.
20. (Added) The substantially purified nucleic acid molecule according to claim 1, wherein said nucleic acid molecule encodes a maize alanine aminotransferase and said nucleic acid molecule comprises a nucleic acid sequence of SEQ ID NO: 5848.
21. (Added) The substantially purified nucleic acid molecule according to claim 1, wherein said nucleic acid molecule encodes a maize pyruvate phosphate dikinase and said nucleic acid molecule comprises a nucleic acid sequence of SEQ ID NO: 6712.
22. (Added) A method of determining an association between a polymorphism and a plant trait comprising:
- (a) hybridizing a nucleic acid molecule specific for the polymorphism to genetic material of plant, wherein the nucleic acid molecule has a nucleic acid sequence selected from the group consisting of SEQ ID NO: 1 through SEQ ID NO: 7341 or complements thereof or fragment of either; and
- (b) calculating the degree of association between the polymorphism and the plant trait.

Remarks

Claims 3-9 have been canceled by this amendment and new claims 10-22 have been added. New claims 10-22 are supported by the original claims and the specification, for example, at page 26 line 4 - page 36 line 9, page 72 lines 6-18 and page 64 lines 16-21. No new matter enters by this amendment. Presently claims 1-2 and 10-22 are pending in the instant